

## 5-Iodo-indirubin-3'-monoxime

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 331467-03-9   |
| Formula:          | C <sub>16</sub> H <sub>10</sub> IN <sub>3</sub> O <sub>2</sub>  |
| Molecular Weight: | 403.17  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|                            |   |
|----------------------------|---|
| Description                | 5-Iodo-indirubin-3'-monoxime is a potent inhibitor of GSK-3 $\beta$ , CDK5/P25, and CDK1/cyclin B, competing with ATP for binding to the catalytic site of the kinase (IC <sub>50</sub> s: 9, 20, and 25 nM). |
| Targets(IC <sub>50</sub> ) | CDK,GSK-3   |

## Solubility Information

|                     |   |
|---------------------|---|
| Solubility          | DMSO: 66.7 mg/mL (165.44 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble)  |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2.5 mg/mL (6.2 mM),Sonication is recommended.<br><i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.4803 mL | 12.4017 mL | 24.8034 mL |
| 5 mM  | 0.4961 mL | 2.4803 mL  | 4.9607 mL  |
| 10 mM | 0.248 mL  | 1.2402 mL  | 2.4803 mL  |
| 50 mM | 0.0496 mL | 0.248 mL   | 0.4961 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Leclerc S, et al. Indirubins inhibit glycogen synthase kinase-3 beta and CDK5/p25, two protein kinases involved in abnormal tau phosphorylation in Alzheimer's disease. A property common to most cyclin-dependent kinase inhibitors? J Biol Chem. 2001 Jan 5;276(1):251-60.

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